

## 14/18 AUS990853US1

FIG. 19

				<u> </u>			
MAJOR CODE	MINOR CODE	DATA ITEM 1	DATA ITEM 2	DATA ITEM 3"	DATA ITEM-4	DATA ITEM 5	DESCRIPTION
0x4	LEVEL + 0x1	DEPTH	N/A	N/A	N/A		BEGIN INTERRUPT AT LEVEL
0x4	LEVEL + 0x80000001	DEPTH	N/A	N/A	N/A		END INTERRUPT AT LEVEL
0x10	Oxab	SYSTEM TID	JAVA TID	IS SYSTEM THREAD (BOOLEAN)	N/A		THREAD CREATED WITHOUT A NAME WHILE TRACE ACTIVE
0x10	0xac	SYSTEM TID	N/A	N/A	N/A		IDENTIFIES THE IDLE THREAD
0x10	0xad	SYSTEM TID	N/A	N/A	N/A		IDENTIFIES THE GARBAGE COLLECTION THREAD
0x10	0xae	SYSTEM TID	JAVA TID	THREAD NAME	N/A	,	THREAD CREATED WITH A NAME WHILE TRACE ACTIVE
0x30	0x10	OBJECT ID	METHOD BLOCK ADDRESS	N/A	N/A		METHOD INVOCATION (INTERPRETED)
0x30	0x10 + 0x80000000	OBJECT ID	METHOD BLOCK ADDRESS	N/A	N/A		METHOD EXIT (INTERPRETED)
0x40	0x7fffffff	NUMBER (n) OF STACK UNWINDS AT TIMER INTERRUPT	pc1-PROGRAM COUNTER OF INTERRUPTED ROUTINE	pc2-CALLER OF INTERRUPTED ROUTINE		pcn-1 OF n-2nd CALLER OF INTERRUPTED ROUTINE	pcn OF n-1st CALLER OF INTERRUPTED ROUTINE
0x41	0x7fffffff	NUMBER (n) OF STACK UNWINDS AT INSTRUMENTED ROUTINE	pc1-PROGRAM COUNTER OF INSTRUMENTED ROUTINE	pc2-CALLER OF INSTRUMENTED ROUTINE			pcn OF n-1st CALLER OF INSTRUMENTED ROUTINE
0x50	0x10	OBJECT ID	METHOD BLOCK ADDRESS	N/A	N/A		METHOD INVOCATION (JITTED)
0x50	0x10 + 0x80000000	OBJECT ID	METHOD BLOCK ADDRESS	N/A	N/A		METHOD EXIT (JITTED)

	s : ol :	: Ticks : 34	12		1800
LvL	RL	Calls	Bose	Cum	Indent Name
1	1	1	0	342	Thread-21(0xe0046618)
2	1	3	0		J:nulltestScore()I
3	1	2	0		J:nulltestMilliseconds(I)I
4	1	29450	0	271	J:nullexecute()!
5	1	271	0		+ stack_0x40
6	1	271	0	271	+- F:ExecuteJava <del>→</del> 1802
7	1	271	0		+ F:jit_invokeCompiledEntryMethod
8	1	271	0	271	+ F:_jit_invokeentry
9	1	271	0	271	+ F:JITInvokeCompiledEntryMethod_md
10	1	271	0	271	++ J:nullrun()V
11	2	271	0	271	++ J:nulltestScore()I
12	2	271	0	271	+ J:nulltestMilliseconds(I)I
13	2	271	268	271	+ J:nullexecute()!
14	1	2	0	2	+ F:jperf_methodEntry
15	1	2	0	2	++ F:SoftTracehook
16	1	2	2	2	++- F:enable_interrupts
14	1	1	1	1	+ F:jperf_methodExit
4	1	1	0	1	stack_0x40
5	1	1	0	1	+ F:ExecuteJava 1804
6	1	1	0		+- F:jit_invokeCompiledEntryMethod
7	1	1	0		+ F:_jit_invokeentry
8	1	1	0		+ F:JITInvokeCompiledEntryMethod_md
9	1	1	0	1	+ J:nullrun()V
10	2	. 1	0	1	++ J:nulltestScore()
11	2	1	0		++- J:nulltestMilliseconds(I)I
-12 -	1	1	0-	1 -	+ J:nullexecute()I
13	1	1	0		++ F:jperf_methodExit
14	1	1	0		+ F:SoftTracehook
15	1	1	1		++ F:enable_interrupts
4	1	2	0	0	J:nullcleanUp()I

FIG. 18

1700

## ArcFlow Output

Bose - Time/Instructions directly in function

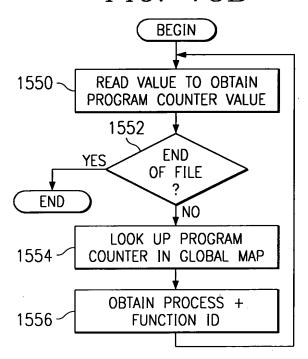
Cum - Time/Instructions directly & indirectly in function ArcFlow Invarients:

- 1) Sum(Parent(Calls)) = Self(Calls)
- 2) Sum(Parent(Base)) = Self(Base)
- 3) Sum(Parent(Cum)) = Self(Cum)
- 4) Sum(Child(Cum)) = Self(Cum)-Self(Base)

Source	Calls	Base	Cum	Function
Self	.1	0	19	[0] pt_pidtid
Child	1	3	19	С
Parent	1	3	19	pt_pidtid
Self	1	- 3	19	[1] C
Child	1	2	9	В
Child	1	3	7	Α
Porent	1	3	7	C
Parent	1	3	7	В
rParent	1	1	1	В
Self	. 3	7	17 15	[2] A
Child	- 3	5	7	В
Child	1	1	1	X
Parent	2	3	4	A
rParent	1	2	3	Α
Parent	1	2	9	С
Self	5	8	13_	[3]_B
			17	
Child	1	3	7	Α
rChild	1	1	1	Α
Child	1	1,	1	В
Parent	1	1	1	A
Self	1	1	1	[4] X

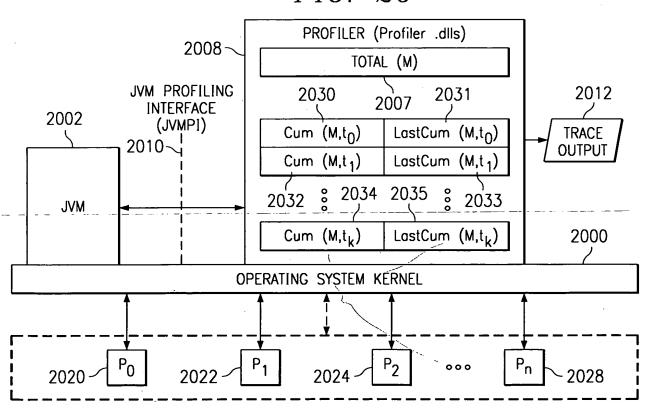
FIG. 17

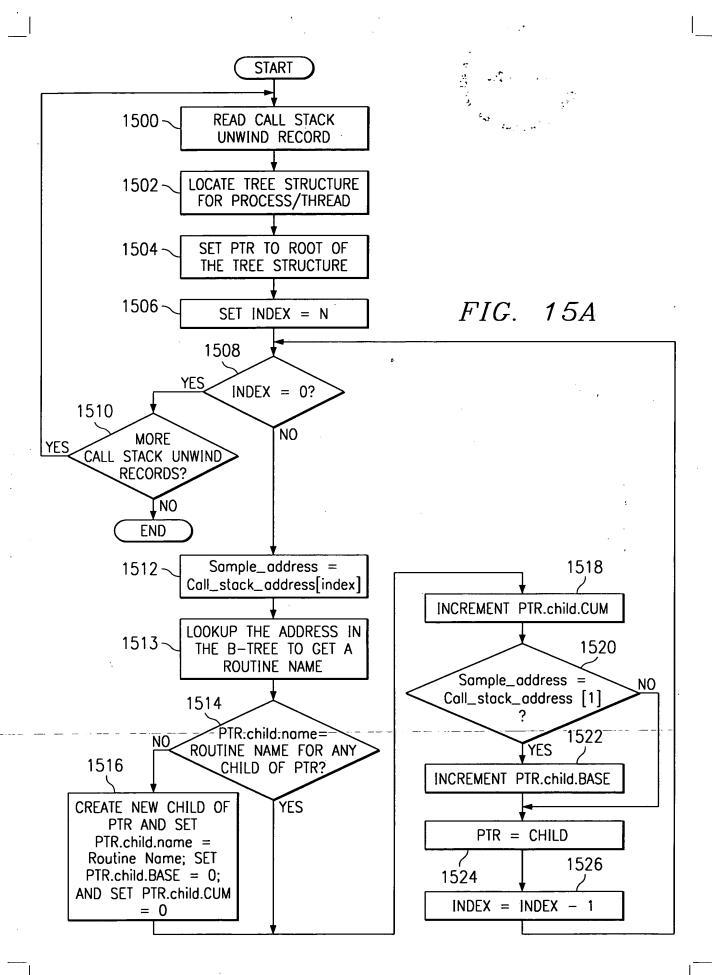
FIG. 15B

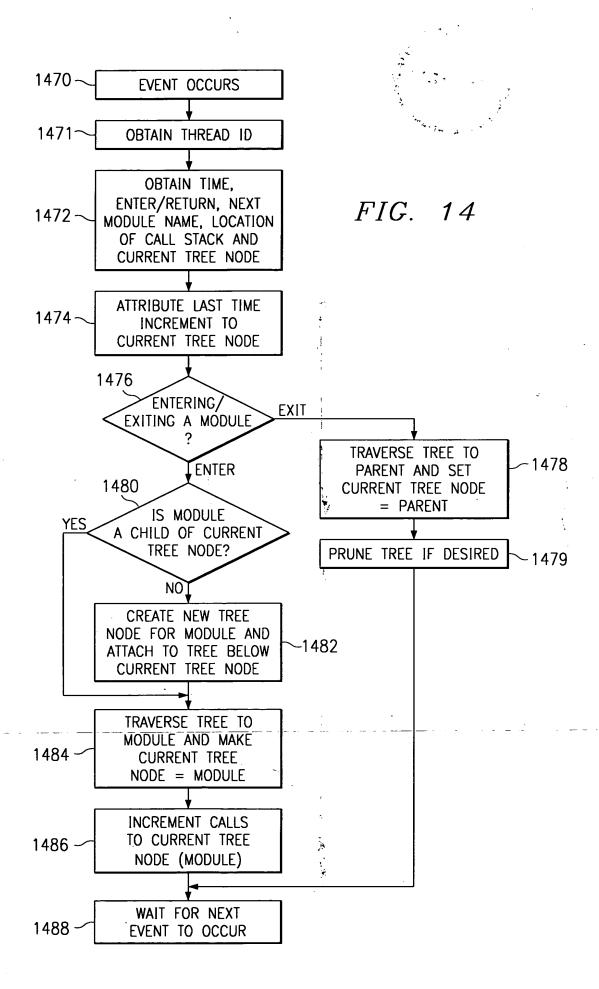


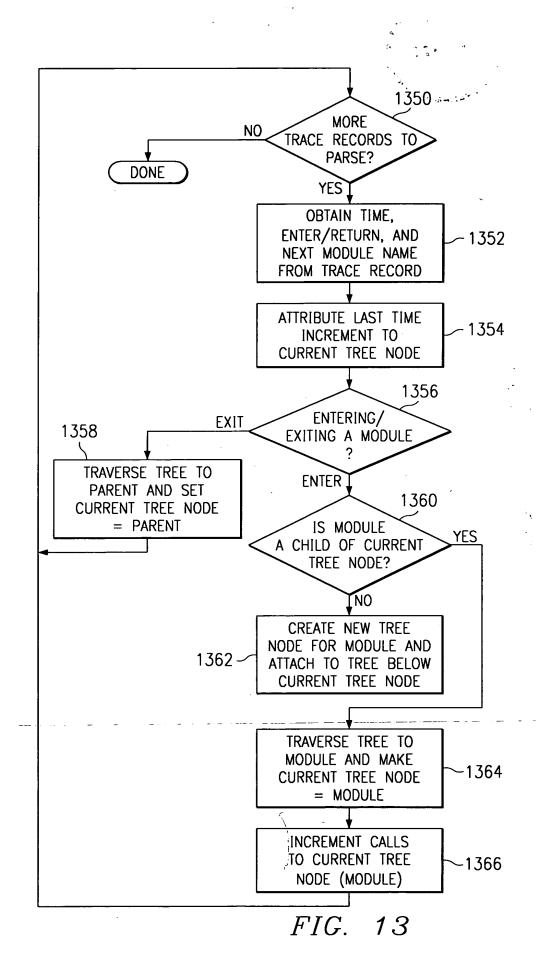
	1600			
			1608	<i>)</i>
CALLS	BASE	СЛМ	NAME	<i>;</i> ;
1	0	19	pt_pit.tid	
1	3	19	С	٠.
3	7	14	A	
5	8	13	В	
1	1	1	Х	

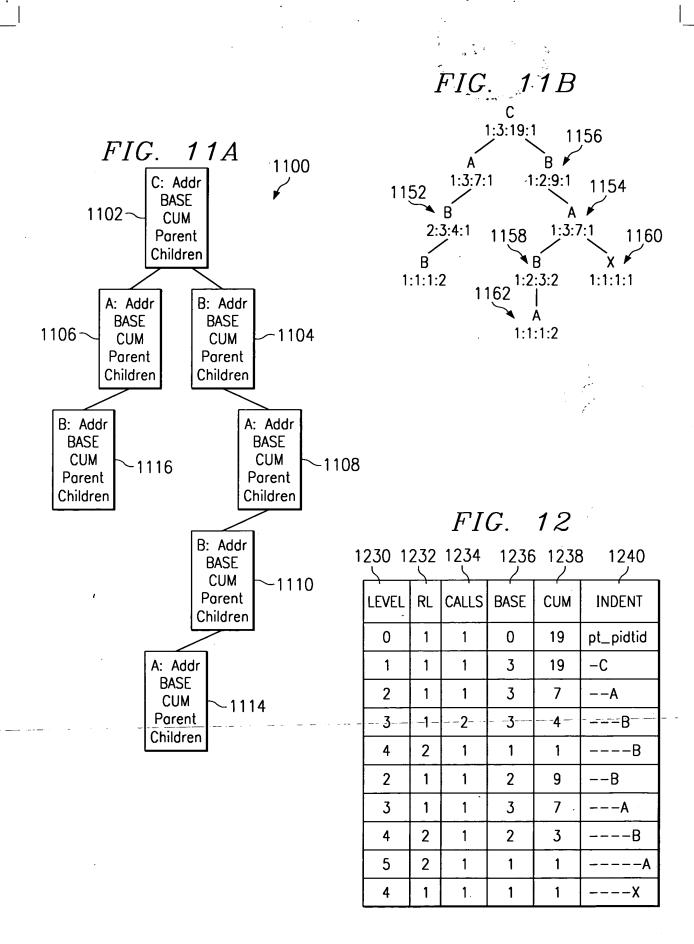
FIG. 20

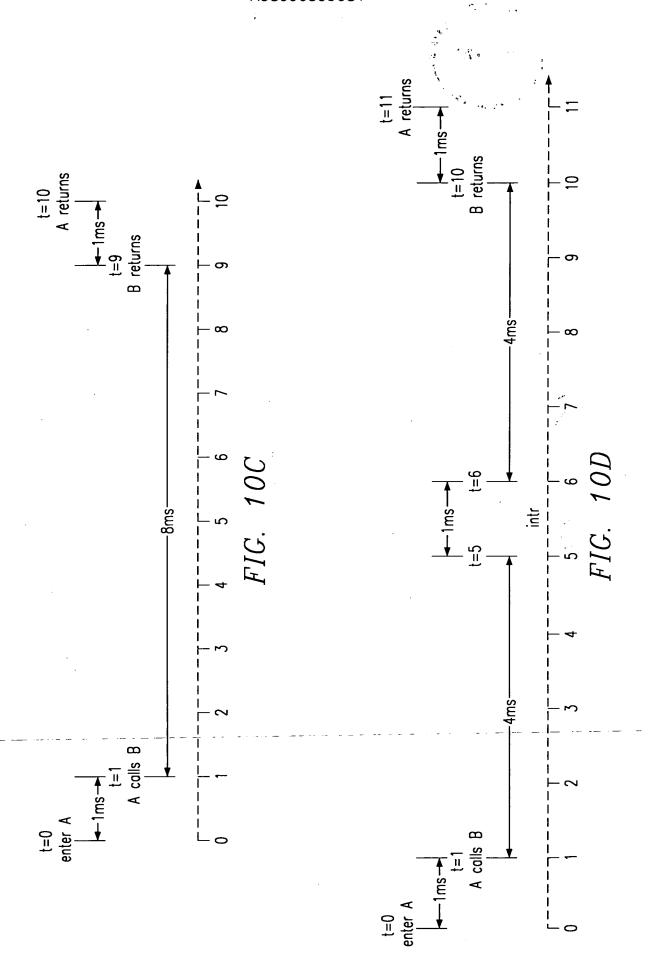


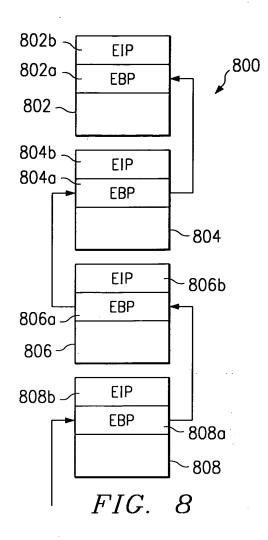












·		
SAMPLE	CALL STACK @ SAMPLE	
1	С	
2	CAB	
3	CAB	
4	CAB	
5	С	
6	CBA	
7	CBABA	
8	CBA	
9	CBA	
10	С	

*FIG.* 10B

		3,	د مورو میشد وروس	90	00
902	904	906	908		910
PID	TÌD	addr1	addr2	000	addrN
FIG. 9					

TIMESTAMP	EVENT	CALL STACK AFTER EVENT
0	ENTER C	:
1	ENTER A	C ·
2	ENTER B	CA
3	EXIT FROM B	CAB
4	ENTER B	CA
5	ENTER B	CAB
6	EXIT FROM B	CABB
7	EXIT FROM B	CAB
8	EXIT FROM A	CA
9	ENTER B	С
10	ENTER A	СВ
11	ENTER B	CBA
12	ENTER A	CBAB
13	EXIT FROM A	CBABA
14	EXIT FROM B	CBA
15	ENTER X	CBAX
16	EXIT FROM X	CBA
17	EXIT FROM A	СВ
18	EXIT FROM B	С
19	EXIT FROM C	

FIG. 10A

